

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0008] on page 3 with the following rewritten paragraph:

[0008] Figure 1 is a schematic block diagram of a sensing system including one sensor element and multiple outputs, according to an embodiment of the present invention; and

Figure 2 is a schematic block diagram of an alternate embodiment of a sensing system including one sensor element and multiple outputs.

Please replace paragraph [0011] on page 4 with the following rewritten paragraph:

[0011] The output signal of the sensor element 12 is typically an analog voltage signal, and is applied to a series of shared circuits 26 associated with the system 10. The shared circuits 26 can be any necessary circuits that are shared by both of the output circuits 14 and 16, such as amplifiers, analog-to-digital converters, filters, etc. In certain designs, there may not be any shared circuits between the output circuits 14 and 16. Such an embodiment is shown in Figure 2 of the present application wherein an alternate embodiment of the sensing system 100 is shown without shared circuitry. The sensor system 10 can also include peripheral circuits 28 that are necessary for the operation of the system 10, such as oscillators, amplifiers, etc. One of normal skill in the art would readily recognize the various circuits that would need to be provided in the shared circuits 26 and the peripheral shared circuits 28 for the particular sensing system.